Aparna Gudivada

✉ aparnagudivada09@gmail.com | 📱 385-266-8190

 Github | in LinkedIn 🌐 Website

Education

University of Utah,Salt Lake City,UT   Aug 2023 - Apr 2025
Masters in Computer Science   *CGPA: 3.6/4*
Relevant Coursework: Advance Data Structures and Algorithms, Operating Systems, Computer Architecture, Machine Learning,Visualization for Scientific Data

VR Siddhartha Engineering College,Vijayawada,India   Jul 2017 - Jul 2021
Bachelors in Information Technology   *CGPA: 3.6/4*
Relevant Coursework: Object Oriented Programming, Data Mining, Data Structures, Computer Networks, Operating Systems, Computer Architecture, Databases

Skills

Languages: Python, Java, C++, C, HTML, CSS, JavaScript, PHP, Typescript, R Programming, Kotlin

Technologies & Tools: Angular, ReactJS, Node.js, PostgreSQL, MYSQL, MongoDB, .NET, Blockchain, Machine Learning, NLP, LLM, LangChain, NumPy, Pandas, scikit-learn, Mobile App Development, Visual Studio Code, Jupyter Notebook, Git, Android Studio, Flask

Work Experience

Intermountain Health, Salt Lake City   May 2024 - Present
Software Engineer Intern

- Developed and maintained backend services using Node.js for the Preadmission Testing (PAT) application, improving patient status visibility and tracking for over 100 nurses, resulting in enhanced operational efficiency.
- Implemented robust CRUD operations and data validations, optimizing database performance by 30% through the use of PostgreSQL, ensuring secure and efficient data management.
- Designed a responsive and user-friendly UI with React, reducing manual task completion time by 40% and significantly improving the overall user experience for healthcare professionals.

University of Utah, Salt Lake City   Aug 2024 - Present
Graduate Teaching Assistant (App System Design)

- Conducted 6+ hours of weekly help sessions for 30+ students, providing guidance on Kotlin-based app development and enhancing their project outcomes.
- Graded 50+ assignments and projects, delivering detailed feedback and ensuring a high standard of adherence to app development best practices.

Accenture, Hyderabad, India   Aug 2021 - Jul 2023
Software Development Engineer

- Led the migration from AngularJS to Angular 13, successfully resolving data binding issues and maintaining high code quality. Addressed 95% of accessibility issues, significantly enhancing web interface inclusivity and usability.
- Proficiently built interactive user interfaces using HTML, CSS, and the Angular framework, leading to a 20% improvement in user engagement and product usability.
- Achieved 90% code coverage by implementing unit testing with Jasmine,ensuring delivery of high-quality, reliable code.
- Actively contributed to streamlining processes in agile environments by participating in the client design discussions, optimizing workflow efficiency.

APSAC, Vijayawada, India   May 2021 - Jul 2021
Research Intern

- Collaboration with a multidisciplinary team of 5 to automate the precise estimation of vegetation areas within specified regions, significantly improving efficiency and accuracy.
- Reduced processing time by 30% through the development of an optimized workflow for downloading Sentinel-2 satellite data via Sentinel Hub and Sentinel Sat APIs.
- Improved data quality and vegetation cover quantification by applying data preprocessing techniques using Python libraries and specialized vegetation indices like NDVI, achieving a 25% increase in accuracy.

Project Work

Comparison of Feature Reduction Techniques in Remote Sensing Images

- Led a project utilizing machine learning algorithms for real-time change detection in remote sensing images, achieving a 20% improvement in accuracy through Factor Analysis, Principal Component Analysis, and K-means clustering for dimensionality reduction.

TrackMyJobs

- Created a full-stack web application using the MERN stack (MongoDB, Express.js, React, Node.js) that supports over 1,000 active users in efficiently managing job applications.
- Introduced real-time updates and secure backend services, reducing application management time by 40%, and created visualizations to improve data insights.

MediBot

- Developed an AI chatbot using Retrieval-Augmented Generation (RAG) and FAISS vector database to analyze a dataset of over 1,000 drug side effects, accurately identifying whether reported symptoms are common for specific medications.
- Designed and implemented an intuitive Streamlit UI, enhancing user engagement and delivering insights into symptom-drug correlations.

Awards and Certificates

- **Microsoft Learn Student Ambassador:** Conducted events to engage students with industry advancements, shared knowledge across various technical areas, and facilitated peer learning.
- **Internshala Student Partner:** Organized workshops and informational sessions to connect students with internship opportunities on Internshala, enhancing their career readiness and technical skills.
- Python3 Programming Specialization by University of Michigan from Coursera
- Machine Learning Specialization by University of Washington on Coursera.